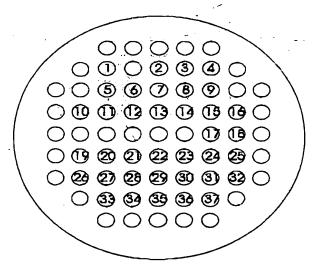
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1	Ir,Ti	14 Ni₅Ti	27 Zn₅Si
2	PĻΤi	15 Rh₅Tī	28 V₅Si
3	Pt ₂ Ti	16 Ru₅Ti	29 Mn ₃ Si
4	Pt₅Ti	17 Cu₅Ti	30 Mn₅Si
5	Zn₅Ti	18 Cu₅Si	31 Fe₅Si
6	V_5Ti	19 Pd₁Si	32 Fe ₁₀ Si
7	Mn_sTi	20 Pd₅Si	33 Ir₂Si
8	Mn₅Ti	21 Cr₅Si	34 Ir₅Si
9	Fe₅Ti	22 Co₅Si	35 Pt₁Si
10	Pd ₁ Ti	23 Ni₅Si	36 Pt₂Si
11	Pd₅Ti	24 Rh₅Si	37 Pt₅Si
12	Cr₅Ti	25 Ru₅Si	
13	Co ₅ Ti	26 Ti₅Si	

Figure 1/7: Design of the catalyst library of example 1: f.e. Co₅Si stands for 5 mol % colbat oxide in 95 mol % SiO2, Co5Ti stands for 5 mol% cobalt oxide in 95 mol% TiO2

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Figure 2/7: IR-image with temperature scale (right) during hydrogenation of 1-hexine at $100~^{\circ}\text{C}$

150

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250

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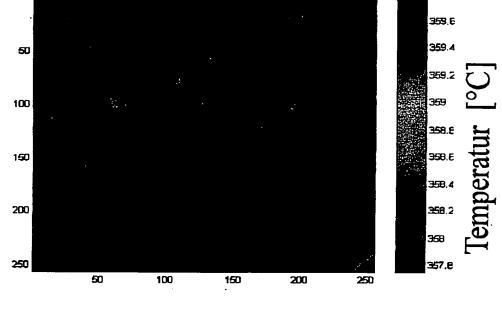


Figure 3/7: IR-image with temperature scale (right) during oxidation of isooctane with synthetic air $350~^{\circ}$ C

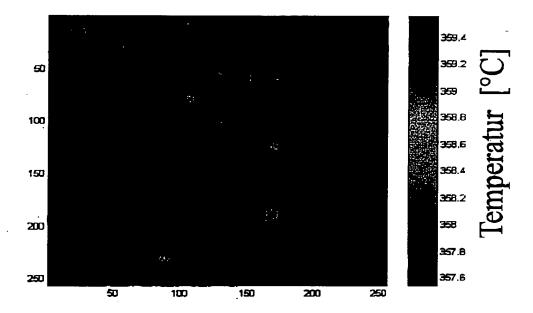
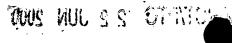


Figure 4/7: IR-image with temperature scale (right) during oxidation of toluene with synthetic air $350~^{\circ}$ C





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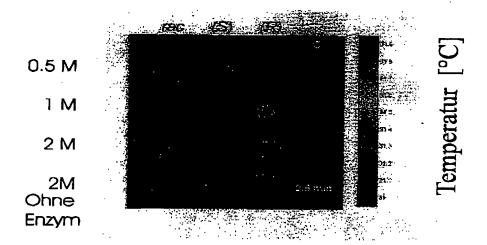


Figure 5/7: IR-image with temperature scale (right) during the lipase catalysed enantioselective acylation of 1-phenylethanol with vinylacetate at 30 $^{\circ}$ C

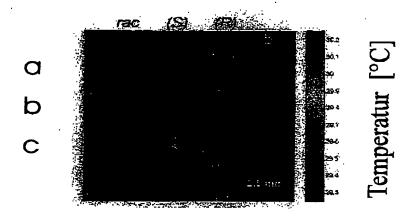
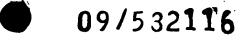


Figure 6/7: IR-image with temperature scale (right) during the enantioselective hydrolysis of epichlorohydrine with various metal-Salen catalysts at 27 °C

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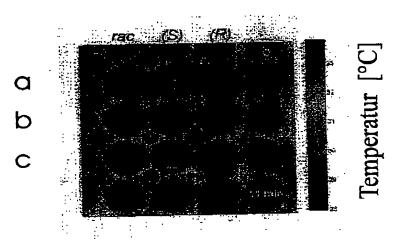


Figure 7/7: IR-image with temperature scale (right) during the énantioselective hydrolysis of various substrates with a cobalt-Salen catalyst at 27 $^{\circ}$ C